

CLAIM AMENDMENTS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims

1. (Currently Amended) A script management system comprising:

a script repository embedded in a computer-readable recording medium, the script repository retrievably storing a plurality of parameterized command script templates and user parameter sets, each of said user parameter sets having a version identifier, whereby multiple versions of user parameter sets are stored in said script repository for each of said parameterized command script templates, wherein at least one command specification constituent of ~~a~~ each of said parameterized command script template templates specifies ~~a~~ the user parameter set version identifier;

a managed entity configuration management module populating said parameterized command script templates in deriving to derive corresponding command scripts, the managed entity configuration management module further requesting additional user parameter values to be entered when discrepancies arise between a command script template version identifier and the user parameter set version identifier; and

a versioning module ensuring that appropriate user parameter set versions are used to populate the parameterized command script templates and ignoring extra user parameters in an old version of a user parameter set when ~~an~~ the old version of a said user parameter set is used with a modified parameterized command script template.

2. (Currently Amended) The script management system claimed in claim 1, wherein ~~at least one command constituent of the command script template further specifies a user parameter identifier, the script management system further comprising:~~

a managed entity configuration human-machine interface for:

entering a user parameter value for the user parameter set version identifier,

saving the user parameter value with the script repository,

optionally requesting the user parameter value from the script repository,

optionally retrieving the user parameter value from the script repository,

optionally editing the user parameter value, and

optionally deleting the user parameter value.

3. (Currently Amended) The script management system claimed in claim 2, wherein:

the parameterized command script template is stored in the script repository along with ~~a the~~ command script template version identifier,

user parameter values corresponding to the at least one command constituent of the parameterized command script template are stored in a user parameter set having ~~a the~~ user parameter set version identifier; identifier, and

the versioning module ~~inspecting~~ inspects the command script template version identifier and the user parameter set version identifier to ensure correspondence therebetween.

4. (Canceled)

5. (Currently Amended) The script management system claimed in claim 1, wherein said at least one command constituent of the parameterized command script template further specifies a network management system parameter identifier, and the managed entity configuration management module further ~~comprising~~ comprises:

means for obtaining a corresponding managed entity parameter value from one of a network management system and a network management system database.

6. (Currently Amended) The script management system claimed in claim 1, wherein each parameterized command script template further comprises:

an associated script execution dependency ~~specification—identifying—that~~
specifies at least one command script required to be executed in advance thereof,
the script management system further comprising:

a script sequencer inspecting the script execution dependency ~~specification—of~~
at least one command script,

the command script being derived from a corresponding parameterized
command script template, to determine whether at least one additional command
script is required to be executed in advance thereof;

~~the a submitted command script~~ and the additional command scripts
representing an apply list of scripts,

the script execution dependency ~~specification—and the script sequencer~~
enabling use of specific parameterized command script templates in respect of
discrete configuration tasks,

wherein script execution dependency ~~specified—combinations specify complex~~
~~communications network—managed entity configurations tasks.~~

7. (Currently Amended) The script management system claimed in claim 6, wherein the script execution dependency specification further comprises comprising:
a script execution dependency table.

8. (Currently Amended) The script management system claimed in claim 6, wherein the managed ~~communications network~~ entity configuration management module further submits sequenced command scripts to at least one target managed communications network entity for execution in configuring thereof.

9. (Currently Amended) The script management system claimed in claim 8, said system further comprising:

a managed entity configuration human-machine interface including means for:

target managed entity selection,

parameterized command script template selection, and

submission of the parameterized command script template selection for configuration of the at least one selected target managed entity to the managed ~~communications network~~ entity configuration management module.

10. (Currently Amended) The script management system claimed in claim 9, wherein each target managed entity comprises one of:

a router, an interface, a routing protocol, and an Internet Protocol (IP) link.

11. (Currently Amended) The script management system claimed in claim 1, further comprising an analyst human-machine interface including means for:

parameterized command script template creation,

submission of the parameterized command script template to the script repository for storage,

optional retrieval of the parameterized command script template, and

optional modification of the parameterized command script template.

12. (Currently Amended) The script management system claimed in claim 11, the analyst human-machine interface further including:

means for creating ~~parameterized~~ command script ~~template~~—templates specification in ~~creating~~ thereof.

13. (Currently Amended) The script management system claimed in claim 11, wherein the parameterized command script template creation means provides

~~parameterized command script template specification templates~~ in accordance with one command interface language selected from a group consisting of:

Command Line Interface (CLI),
eXtensible Markup Language (XML),
Node Management Terminal Interface (NMTI), and
Transaction Language 1 (TL1).

14. (Currently Amended) The script management system claimed in claim 11, the analyst human-machine interface further including:

means ~~for~~ for specifying script execution dependency specification.

15. (Currently Amended) The script management system claimed in claim 11, the analyst human-machine interface further including:

means ~~for~~ for specifying command script execution authorization specification in respect of the parameterized command script template.

16. (Currently Amended) An analyst human-machine interface, embedded in a computer-readable recording medium, for communications network managed entity configuration comprising means for:

creating a parameterized command script template; ~~creation,~~

submission of the parameterized command script template to a script repository for ~~storage~~, storage;

submission of multiple versions of user parameter sets to the script repository for storage, each of said user parameter sets having a version identifier;

retrieval of the parameterized command script template and the user parameter-sets, sets;

modification of the parameterized command script-template, template;

ensuring that appropriate versions of the user parameter sets populate the parameterized command script-template, and template;

ignoring extra user parameters in a ~~the~~ user parameter set when an old version of a ~~the~~ user parameter set is used with a modified command script template; and

requesting additional user parameter values to be entered when discrepancies arise between a command script template version identifier and the user parameter set version identifier.

17. (Currently Amended) The analyst human-machine interface claimed in claim 16, further including:

means for specifying parameterized command script template-templates specification in creating thereof.

18. (Currently Amended) The analyst human-machine interface claimed in claim

16, further including:

means for specifying script execution dependency for respective
parameterized specification in respect of a command script template templates.

19. (Currently Amended) The analyst human-machine interface claimed in claim

16, further including:

means for specifying command script execution authorization specification in
respect of the for respective parameterized command script template templates.

20. (Currently Amended) The analyst human-machine interface claimed in claim

16, wherein said parameterized command script template creation means provides
specifies parameterized command script templates template specification in
accordance with one command interface language selected from a group consisting
of:

Command Line Interface (CLI),

eXtensible Markup Language (XML),

Node Management Terminal Interface (NMTI), and

Transaction Language 1 (TL1).

21. (Currently Amended) A managed entity configuration human-machine interface embedded in a computer-readable recording medium, comprising means for:

parameterized command script template selection from a group of parameterized command script-templates, templates and user parameter sets, each of said user parameter sets having a version identifier, whereby multiple versions of said user parameter sets correspond to each of said parameterized command script templates;

submission of the parameterized command script template selection for the configuration of at least one target managed-entity, entity;

ensuring that appropriate user parameter set versions populate the parameterized command script-templates, and templates;

ignoring extra user parameters in ~~a-the~~ the user parameter set when an old version of ~~a-the~~ the user parameter set is used with a modified parameterized command script template; and

requesting additional user parameter values to be entered when discrepancies arise between a command script template version identifier and the user parameter set version identifier.

22. (Currently Amended) The managed entity configuration human-machine interface claimed in claim 21,

wherein ~~command-script-template-specification-is-parameterized,~~ at least one command constituent of the parameterized command script template specifies ~~a-the~~ user parameter set version identifier, and

the managed entity configuration human-machine interface further ~~comprising-comprises~~ means for:

entering a user parameter value,

submitting the user parameter value for storage in a script repository,

optionally retrieving the user parameter value from the script repository,

optionally editing the user parameter value, and

optionally deleting the user parameter value.

23. (Currently Amended) The managed entity configuration human-machine interface claimed in claim 21, further comprising:

~~means-for-~~for target managed entity selection from a group of managed communications network entities.

24. (Currently Amended) The managed entity configuration human-machine interface claimed in claim 23, wherein each target managed entity comprises one of:

- a router,
- an interface,
- a routing protocol, and
- an Internet Protocol (IP) link.

25. (Currently Amended) A computer-readable recording medium comprising:

at least one parameterized command script template comprising an associated version ~~specification, specification;~~

a plurality of user parameter set-sets, each of said user parameter sets comprising the same associated version specification a version identifier, whereby multiple versions of said user parameter sets correspond to said parameterized command script, and template;

instructions for ignoring extra user parameters in a the user parameter set when an old version of a the user parameter set is used with a modified parameterized command script template; and

instructions for requesting additional user parameter values to be entered when discrepancies arise between a command script template version identifier and the user parameter set version identifier.

26-27. (Canceled)

28. (Currently Amended) The recording medium claimed in claim 25, wherein at least one parameterized command script template of a plurality of parameterized command script templates further comprises:

a script execution dependency ~~specification~~—specifying another command script derived from one other parameterized command script template to be submitted for prior execution.

29. (Currently Amended) The recording medium claimed in claim 25, wherein the at least one parameterized command script template is specified in accordance with one command interface language selected from a group consisting of:

Command Line Interface (CLI),
eXtensible Markup Language (XML),
Node Management Terminal Interface (NMTI), and
Transaction Language 1 (TL1).

30. (Currently Amended) A method of configuring a communications network managed entity comprising ~~the steps of~~:

selecting at least one parameterized command script template from a plurality of parameterized command script templates based on a configuration task to be performed on the managed entity;

selecting a user parameter set from a plurality of user parameter sets, each of said user parameter sets having a version identifier, whereby multiple versions of said user parameter sets correspond to each of said parameterized command script templates;

populating the selected parameterized command script template with appropriate user parameter set versions to derive a command script in respect of the configuration task;

submitting the command script to the managed entity for execution; ~~and~~

ignoring extra user parameters in a ~~the~~ user parameter set when an old version of a ~~the~~ user parameter set is used with a modified parameterized command script template; ~~and~~

requesting additional user parameter values to be entered when discrepancies arise between a command script template version identifier and the user parameter set version identifier.

31. (Currently Amended) The method claimed in claim 30, further comprising:
the step of

retrieving ~~the~~ at least one parameter value from a repository.

32. (Currently Amended) The method claimed in claim 31, further comprising:
~~wherein retrieving the at least one parameter value from the repository further~~
~~comprises a step of:~~

retrieving a ~~the~~ user parameter set including a plurality of user parameter
values for the selected parameterized command script template.

33. (Currently Amended) The method claimed in claim 32, further comprising:
~~wherein populating the command script template further comprises the steps of:~~
determining that a user parameter value is missing when the user parameter
value is not provided in a ~~the~~ user parameter set; and

prompting a user to enter the missing user parameter value to populate the
selected parameterized command script template.

34. (Currently Amended) The method claimed in claim 33, further comprising: a
step of

storing user parameter set versions in a script repository.

35. (Currently Amended) The method claimed in claim 34, wherein each parameterized command script template has an associated version-specification, and, in retrieving the user parameter sets, the method further comprises the steps of:

comparing the command script template version with the user parameter set version; and

selectively re-entering a user parameter in the user parameter set ~~if~~ when the user parameter set version has changed.

36. (Currently Amended) The method claimed in claim 30, further comprising: ~~the step of~~

populating the selected parameterized command script template with at least one network management system parameter value to derive a command script in respect of the configuration task.

37. (Currently Amended) The method claimed in claim 36, further comprising ~~the step of:~~

retrieving a network management system parameter value.

38. (Currently Amended) The method claimed in claim 37, further comprising the step of:

requesting the network management system parameter value from one of a network management system and a network management system database.

39. (Currently Amended) The method claimed in claim 30, further comprising the step of

retrieving the at least one selected parameterized command script template from a script repository.

40. (Currently Amended) The method claimed in claim 39, wherein selecting more than one parameterized command script template, the method further comprises the step of:

generating an apply list of command scripts.

41. (Currently Amended) The method claimed in claim 40, wherein a parameterized command script template further includes:

a script execution dependency ~~specification~~—specifying command scripts required to be executed before the a corresponding command script, the method further comprising a step of:

ordering the plurality of parameterized command script templates in the apply list.

42. (Currently Amended) The method claimed in claim 41, further comprising steps of:

determining that a ~~said~~ script execution dependency ~~specification~~ specifies a command script not currently a member of the apply list; and

retrieving ~~the a~~ corresponding parameterized command script template from a ~~said~~ script repository for inclusion in the apply list.